

Sequence search alignment

21.sl.rng5

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RESULT 21
AAA13558/c
ID AAA13558 standard; DNA; 14 BP.
XX
AC AAA13558;
XX
DT 20-JUL-2000 (first entry)
XX
DE CFTR gene.exon 10 PCR primer CFEx10-R.
XX
KW Cystic fibrosis; mutation; detection; mass spectrometry; diagnosis;
KW genetic disease; chromosomal abnormality; infection; cancer; obesity;
KW atherosclerosis; PCR primer; ss.
XX
OS Synthetic.
XX
PN US6043031-A.
XX
PD 28-MAR-2000.
XX
PF 18-MAR-1996; 96US-00617256.
XX
PR 17-MAR-1995; 95US-00406199.
XX
PA (SEQU-) SEQUENOM INC.
XX
PI Koester H, Higgins GS, Little DP;
XX
DR WPI; 2000-270337/23.
XX
PT Identifying target nucleic acid sequence in a biological sample useful
PT for diagnosis of genetic disease or chromosomal abnormality, involves
PT using mass spectrometer.
XX
PS Example 7; Col 28; 95pp; English.
XX
CC The present invention describes a method developed for identifying a
CC target nucleic acid sequence (NA) in a biological sample as normal or
CC mutant, by hybridising the NA with a mutant or normal primer capable of
CC hybridising to the mutated or wildtype sequence in the target NA and
CC identifying the target NA by mass spectrometry. The method can be used
CC for diagnosis of genetic disease, chromosomal abnormality, a
CC predisposition to a genetic disease, cancer or an infection, by
CC identifying a target nucleic acid sequence in a biological sample. The
CC method is also useful for diagnosing a predisposition to a disease or
CC condition (e.g. obesity, atherosclerosis) or to provide information
CC relating to identity, heredity or compatibility (e.g. HLA phenotyping).
CC The method is highly accurate, reliable and avoids electrophoretic,
CC labeling and detection steps. The entire method can be completed within 2
CC -3 hours and is less expensive. Nucleic acid fragments are identified and
CC detected at the same time by the specific molecular weights and the
CC method allows rigorous controls for preventing false negative or positive
CC results. The present sequence represents a PCR primer for exon 10 of the
CC CFTR gene which is used in an example from the present invention
XX
SQ Sequence 14 BP; 2 A; 1 C; 8 G; 3 T; 0 U; 0 Other;

Query Match 47.8%; Score 11; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 37;
Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 ACGCCCTTCAC 12
 |||||
Db 13 ACGCCCTTCAC 3

Sequence Search alignment

RESULT 103
 AAX77471/c
 ID AAX77471 standard; DNA; 10 BP.
 XX
 AC AAX77471;
 XX
 DT 05-AUG-1999 (first entry)
 XX
 DE US5912147 primer 15.
 XX
 KW Primer; quantitation; genetic instability; tumour cell; detection;
 KW neoplastic transformation; carcinogenesis; ss.
 XX
 OS Synthetic.
 XX
 PN US5912147-A.
 XX
 PD 15-JUN-1999.
 XX
 PF 22-OCT-1996; 96US-00734973.
 XX
 PR 22-OCT-1996; 96US-00734973.
 XX
 PA (HEAL-) HEALTH RES INC.

XX
 PI Anderson G, Stoler D, Basik M;
 XX
 DR WPI; 1999-357197/30.
 XX
 PT Quantitating genetic instability.
 XX
 PS Claim 4; Col 21-22; 27pp; English.
 XX
 CC This invention describes a novel method for quantitating genetic
 CC instability independent of microsatellite alterations by treating a
 CC comparison pair comprising genomic DNA from tumour cells and genomic DNA
 CC from normal cells. The method involves the cells from the same individual
 CC with oligonucleotide primers selected from (i) a nucleotide sequence
 CC (CG)xRG, where R is a purine selected from adenine and guanine and x = 3-
 CC 7, (ii) a nucleotide sequence (CG)xRY, where R is as in (i) and Y is a
 CC pyrimidine selected from cytosine, thymine, and uracil and x = 3-7,
 CC a nucleotide sequence (CG)xRR, where R is as in (i) and x = 3-7, (iv) a
 CC cytosine, thymine, and uracil and x = 3-7, (v) a nucleotide sequence
 CC (CA)xRG, where R is a purine selected from adenine and guanine and x = 6-
 CC 16, (vi) a nucleotide sequence (CA)xRY, where R is a purine selected from
 CC adenine and guanine and Y is a pyrimidine selected from cytosine,
 CC thymine, and uracil, and x = 6-16, (vii) a nucleotide sequence (CA)xRR,
 CC where R is a purine selected from adenine and guanine and x = 6-16,
 CC (viii) a nucleotide sequence (CA)xYY, where Y is a pyrimidine selected
 CC from cytosine, thymine, and uracil and x = 6-16, and (ix) a combination
 CC of the primers. The method is useful for detecting genomic instability
 CC which are commonly associated with the various stages of neoplastic
 CC transformation and carcinogenesis. The method is rapid and simple
 XX
 SQ Sequence 10 BP; 0 A; 4 C; 5 G; 1 T; 0 U; 0 Other;
 Query Match 36.5%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 63;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 11 ACCGCGCGGG 20
 Db |||||
 10 ACCGCGCGG 1